_STETSHUKO, N.D.

Changes in the conditioned response activity of dogs induced by the action of weak impulse currents on the cerebral cortex. Fiziol. zhur. [Ukr.] 2 no.5:35-49 S-0 '56. (MIRA 10:1)

1. Institut fiziologii imeni O.O.Bogomol'tsya Akademii nauk URSR, laboratoriya biofiziki.

(CONDITIONED RESPONSE) (ELECTROPHYSIOLOGY)

(CEREBRAL CORTEX)

STETSENKO, N.D. [Stetsenko, M.D.]

Changes in brain temperature as affected by weak impulse currents and direct cirrent as compared with the action of vertain drugs [with summary in English]. Fizoolzhur. [Ukr.] 3 no.6:91-101 D '57.

(MIRA 11:2)

1. Institut fiziologii im. 0.0.Bogomol'tsya Akademii nauk URSR, laboratoriya biofiziki.

(BRAIN) (BIECTRICITY--PHYSIOLOGICAL EFFECT)

STETSTHKO, N.D. [Stetsenko, M.D.]

Comparing electroencephalograms records before and after the action of weak pulse currents and direct current on the brain. Fiziol. zhur. [Ukr.]4 no.6:730-745 N-D '58. (MIRA 12:3)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya biofiziki.

(ELECTROWNCEPHALOGRAPHY)

STETSENKO, N.D.

Changes in the functional state of the heart following internal irradiation with radioactive phosphorus; electrocardiographic examination. Vest.rent. i rad. 33 no.3:66 My-Je '58 (MIRA 11:8)

1. Institut fiziologii imeni A.A. Bogomol'tsa AN USSR (dir.-chlen-korrenspondent AN USSR prof. A.M. Vorob'yev). laboratoriya biofiziki (znv. - prof. A.A. Gorodetskiy).

(HEART)

(PHOSPHORUS--ISOTOPES)

STETSENKO, N.D. [Stetsenko, M.D.]

Changes in the encephalogram recorded during the formation of a conditioned reflex and induced by weak impulse currents. Fiziol. zhur. [Ukr.] 5 no.5:575-585 8-0 '59 (MIRA 13:3)

l. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya biofiziki.
(CONDITIONED RESPONSE) (ELECTROENCEPHALOGRAPHY)

STETSENKO, N. D. Cand Med Soi -- "Study of Extended and inhibiting effect
of weak Depulse currents upon the nervous system." Kiev, 1960 (Acad Sci UkSSR.
Department of Biol Sci). (KL, 1-61, 211)

-437-

STETSENKO, N.D. [Stetsenko, M.D.]

Changes in the pnoumogram and electrocardiogram resulting from the action of weak pulse currents on the brain. Fiziol. zhur. [Ukr.] 7 no.2:187-196 Mr-Ap '61.

1. Biophysics Laboratory of the A.A.Bogomoletz Institut of Physiology of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

(ELECTROPHYSIOLOGY) (GEREBRAL CORTEX)

(RESPIRATION)

(RESPIRATION)

(1) 10 mm 1

STETSENKO, Nikolay Dem'yanovich[Stetsenko, M.D.]; HUCHKOVSKIY, B.S.[Ruchkovs'kyi, B.S.], red.

中于一层社会各种的经济的政治的基础基础,但是不是一个工作的。

[Effect of week impulse currents on the brain] Diia na mozok slabkykh impul'snykh strumiv. Kyiv, Vyd-vo AN UKSA, 1963. 195 p. (MIRA 17:9)

MIRKIR, Zinoviy Samoylovich; STETSENIO, Hikeley Mikhaylovich; ThPLYakol, a., red ktor; Zalankova, Ye., tekhnicheskiy redaktor | Manual for painters and finishers] Pamiatka maliara-al'freishchika. Miev, Gos.izd-vo lit-ry po stroit. i arkhit. USSR, 1957. 543 p. (Painting, Industrial) (MLRn 10:1) (House decoration, Industrial)

- 1. N. M. STETSENKO, Eng.
- 2. USSR (600)
- 4. Agricultural Exhibitions
- 7. Experience with the construction of a residential settlement for the Ukrainian Agricultural Exhibit at Kiev. Biul. stroi. tekh. 9 no. 23. 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PROTSENKO, D.F. [Protsenko, D.P.]; SIRENKO, L.A.; STETSENKO, N.M.

Photosynthetic processes and frost resistance of plants. Visnyk.

Kyi... un. no.4. Ser. biol. no.2:16-27'61. (MIRA 16:6)

'PHOTOSYNTHESIS) (PLANTS—FROST RESISTANCE)

(APPLE—VARIETIES)

COLINSKAYA, Ye.L. [Holyns¹ka, IE.L.]; STETSENKO, N.M.

Physiological and biochemical characteristics of parental and hybrid forms of cyrn. Visnyk Kyiv.um. no.5. Ser.biol. no.23 (MIRA los5)

(HYERID CORN)

GOLYCCAVI, Ye. .; GRICGEREO, Y.4.; Wechairo, C.N.; STETSERKO, N.M.

Theriological and biochemical characteristics of the vegetative and generative organs of conn in connection with heterosis.

Fiziol. rast. 12 no.3:440-452 My-Je *65. (MIRA 18:10)

L. Safrand genetiki i finiclogic rapterly higewoods gosudarst-venner universitety.

15-57-3-3385

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

p 134 (USSR)

AUTHORS: Blyumen, L. M., Stetsenko, N. N., Zakhar'yants, O. N.

TITLE: Glazed Ceramic Facing Tile Made From Local Raw Material

(Oblitsovochnyye glazurovannyye keramicheskiye plitki

na baze mestnogo syr'ya)

PERIODICAL: Tr. In-ta antiseysmich. str-va AN SSSR, 1956, Nr 1,

pp 74-104

ABSTRACT: Clay and sandy clay deposits near Ashkhabad were tested

for possible use in the manufacture of facing tile.

The chemical compositions of the initial clays are given in the Table (in percents). Usually ground limestone or chalk in quantities of C5 to 30 percent is introduced into the ceramic paste. Local sandy clays rich in carbonates are therefore used for their marl-producing

effect (producing leanness). The Kalininskiye gliny (clays)

Card 1/2 might be used as the source of supply for the manufac-

STETSENKO, N. T.

20878. Tsyashenko, P. S. 1 Stetsenko, N. T. Tridtsat'let sobetskogo svekloseyaniya
Sbornik nauk rabot (Vsesoyuz. nauch. -issled. in-t saknar. svekly) Kiyev-khar'kov,
1948, s. 3-9.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

BERKOVSKIY V.S., inzh.; OSADCHIY, A.N., inzh. Prinimali uchastiye: STETSENKO, H.V.; LONAKEV, M.I.; AVRUNIH; P.M.; SHALHEV, M.I.; IVANISHKIN, A.Ya.; OVECHKIN, V.I.; POVETKIN, G.I.; SHEVERDIN, V.I.

Grooving for the rolling of strip with acute angles. Stal' 23 no.7: 627-631 Jl '63. (MIRA 16:9)

(Rolling (Metalwork)) (Rolls (Iron mills))

POLUKHIN, P.I., BERKOVSKIY, V.S.; OSADCHIY, A.N., STETSENKO, N.V.;
AVRUNIN, P.M.; IVANKIN, Yu.I.

Oval and edged oval system of roll passes on tandem light section mills for rolling high alloy steel. Stal! 15 no.4:337-341 Ap '65. (MIRA 18:11)

1. Moskovskiy institut stali i splavov i Zavod "Dneprospetsstal".

KARASEV, V. K., kand. tekhn. nauk, dotsent; Prinimali uchastiye: STETSENKO, N. Yu., student; SHADRINA, V. I. student

Method of increasing the wear resistance of pattern edges. Izv. wys. ucheb. zav.; tekh. leg. prom. no.4:139-143 '62. (MIRA 15:10)

1. Leningradskiy tekstil'nyy institut imeni S. M. Kirova. Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.

(Garment cutting)

9,9300 (1036)

24384 \$/142/60/005/005/011/015 E192/E382

AUTLORS:

Sazonov, A.I. and Stetsenko, O.A.

TITLE:

Dependence of the Radio Refraction Angle on the Wavelength During Formation of Elevated Tropo-

spheric Waveguides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.
Radiotekhnika, 1960. Vol. 3. No. 5, pp. 515-516

TEXT: Investigation of the radiowave refraction angle in the troposphere is of importance in the determination of the errors of the positions of targets in space. The angle of reflection was determined by the methods of geometrical optics in a number of works (Ref. 1 - A.V. Shabel'nikov - Radiotekhnika i elektronika, 1956. Vol. 1, No. 3, p. 277: Ref. 2 - D.M. Vysokovskiy - do- p. 274 and Ref. 3 - V.Fannin and K. Dzhen - Voprosy radiolokatsionnoy tekhniki, 1957. Vol. 5, No. 41, p. 164). In this work, the solution of the wave equation with &-profiles approximated by the non-symmetrical Epstein model is used for determining the dependence of the refraction angle on the wavelength and the Card 1/6

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24384 S/142/60/003/005/011/015 E192/E382

Dependence of the

parameters of the elevated waveguide provided that the position angles of the target are small and that the target is situated in the centre of the waveguide or above it. It is known that during an inclined incidence of an electromagnetic wave onto the layer whose permittivity as a function of height is given by

$$\varepsilon_1(z) = \varepsilon_1 + (\varepsilon_2 - \varepsilon_1) \frac{e^{\varepsilon}}{1 + e^{\varepsilon}} + \varepsilon_3 \frac{e^{\varepsilon}}{(1 + e^{\varepsilon})^2}, \tag{1}$$

the expression for the refracted wave is in the form (Ref. 4 - P.S. Epstein - Proc. of the National Academy of Sciences, 1930, Vol. 16, No. 10, p. 627):

$$E_{np} = e^{ikpx + kaz/s} (1 + e^{kz/s})^d F_1(a+b+d, a-b+d, 2a+1, e^{-kz/s}).$$
 (2)

where $\xi = kz/s$, s being a parameter which expresses the thickness of the layer in $\lambda/2\pi$ units. In Eq. (2):

Card 2/6

21:384

Dependence of the

S/142/60/003/005/011/015 E192/E382

 $a = is\sqrt{\epsilon_1} \cos \varphi = ia_1$, $b = is\sqrt{\epsilon_2 - \epsilon_1 \sin^2 \varphi}$.

$$d = \frac{1}{2} - \frac{1}{2} \sqrt{1 + 4s^2 \varepsilon_3}$$

which of the hypergeometric equation /are the parameters/and ϕ is the glancing angle. In general, it is sufficient to consider only the first two terms of the series so that the equation for the phase front can be written as:

$$\Phi(x_1 | z) \simeq K \sqrt{\epsilon_1} x \sin \varphi + K \sqrt{\epsilon_1} z \cos \varphi + + \text{arc tg} \frac{2a_1(b_1^2 + d^2 - a_1^2 - d)}{(1 + 4a_1^2) e^{-\frac{kz}{2}} + a_1^2 - b_1^2 - d^2 - 4a_1^2 d}.$$
(3)

Since the medium is isotropic, the direction of the ray corresponds to the direction of the normal to the wave surface. Card 3/6

Z1:351:

S/142/60/003/005/011/015 E192/E382

Dependence of the

The angle of the tangent to the ray can be found from: ...

$$tg \beta = \left(\frac{\underline{\Phi}_{z}^{\prime}}{\underline{\Phi}_{x}^{\prime}}\right)_{x_{0}, z_{0}}$$
(4)

where x and z denote partial derivatives. This angle can thus be expressed by:

$$\exp \left\{ 1 + \frac{2s^2 \left(\epsilon_2 - \epsilon_1 + \epsilon_3 \right) \left(1 + 4s\epsilon_1 \cos^2 \varphi \right) e^{-A\epsilon_0/8}}{\left(1 + 4s^2 \epsilon_1 \cos^2 \varphi \right) \left(e^{-A\epsilon_0/8} + \frac{1}{2} \right) \sqrt{1 + 4s^2 \epsilon_3} - \frac{1}{2} \right) - s^2 \left(\epsilon_2 - \epsilon_1 + \epsilon_3 \right)^2} \right\}.$$
 (5)

The above expression determines the relationship between the angle β and the parameters of the non-symmetrical layer of the Epstein type, the wavelength and the glancing angle. The total refraction angle is:

Card 4/6

21, 381,

Dependence of the S/142/60/003/005/011/015 E192/E382

$$\alpha \simeq \frac{1}{2} (\beta - \varphi) \tag{6}$$

On the basis of Eqs. (5) and (6) it was possible to calculate curves giving the dependence between the refraction angle and the wavelength for actual ε -profiles. An example of such a curve is shown in Fig. 1.6 This was calculated for $\varepsilon_1 = \varepsilon_2 = 1.000681$, $\varepsilon_3 = 48.10^{-6}$ and the layer thickness of 80 m. There are 1 figure and 9 references: 7 Soviet and 2 non-Soviet. The English-language reference: quoted is: Ref. 4 (quoted in text).

ASSOCIATION:

Laboratoriya radiofiziki Sibirskogo fizikotekhnicheskogo NII pri Tomskom gosuniversitete im. V.V. Kuybysheva (Radiophysics Laboratory of the Siberian Physicotechnical Scientific Research Institute of Tomsk State University)

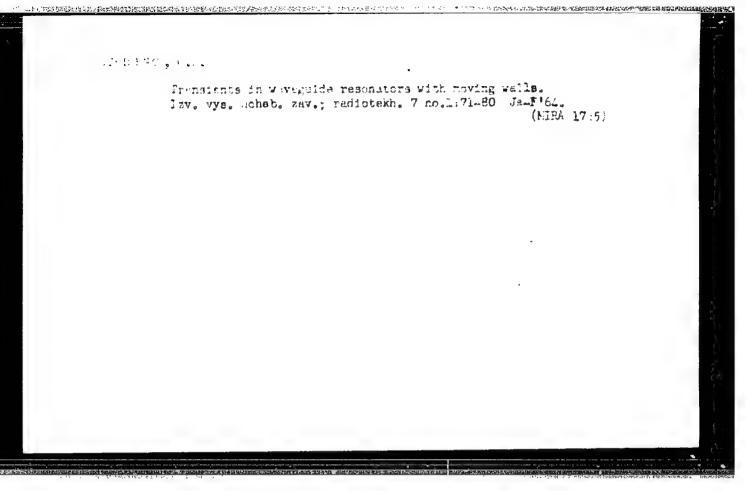
Card 5/6

STETSENKO, O.A.

Compression of an electromagnetic field between two planes. Izv. vys. ucheb. zav.; radiotekh. 6 no.6:695-700 N-D 163.

Approximate solution of a wave equation for a resonator system with a moving wall. Tbid.:701-704 (MIRA 17:1)

1. Rekomendovana kafedroy teoreticheskikh osnov radiotskhniki Moskovskogo energeticheskogo instituta.



ZAKHAROVA, M.I.; STETSENKO, P.N.

Magnetic properties and structure of an Fe - V(27%) alloy. Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5: 47-52 '57. (MIRA 11:9)

1.Kafedra magnetisma Moskovskogo gosudarstvennogo universiteta. (Iron-vanadium alloys--Magnetic properties)

ZAKHAROVA, M.I.; STETSENKO, P.N.

Phase transformations in Fe-V alloys. Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5:53-61 '57. (MIRA 11:9)

1. Kafedra magnetisma Moskovskogo gosudarstvennogo universiteta. (Iron-vanadium alloys--Metallography)

STETSENKO, P. N. Cand Phys-Math Sci -- (diss) "Study of magnetic properties and structure# during phase transformations in ferrovandium alloys." Mos, 1958. 7 pp (Mos State Univ im M. V. Lomonosov. Physics Faculty), 100 cogies (KL, 13-58, 93)

-13-

Card 1/2

67807

SOV/180-59-5-24/37

Zakharova, M.I., Semenova, L.A., and Stetsenko, P.N. AUTHORS:

Phase Transformations in the System Iron-Vanadium TITLE:

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo,1959,Nr 5,pp 135-138 (USSR)

ABSTRACT: The deterioration of the properties of Fe-V alloys which follows the separation of the o-phase on cooling has

attracted considerable attention. In the present work an investigation was made of the structure of alloys of Fe with 27 and 47.7 weight % V after annealing followed by

hardening from various temperatures. X-ray and

microscopic analysis and measurement of magnetic properties were used. Both alloys were found to have a two-phase structure, the quantity of second phase being greater for a 1400 than a 1250 °C hardening temperature. The magnetic properties likewise indicate (Figs 1 and 2)

show these as functions of temperature for various conditions), that the two-phase is the equilibrium

structure at temperatures above the a-o transition point.

X-ray analysis pointed to the existence of a new phase, rapidly disappearing at 975 °C. The authors studied

67807 SOV/180-59-5-24/37

Phase Transformations in the System Iron-Vanadium

conditions for the formation of this new (B) phase. The quantity of a-phase in the 47.7 and 27% V alloy was found by Nechvolodov's method to be 35 and 10% respectively. The magnetic properties of the low- and high-vanadium alloys annealed at 1350 oc for 60 hours are shown as functions of temperature in Figs 3 and 4, respectively. The work shows that there are two polymorphic changes (β-a and a-c) in the Fe-V alloys, both proceeding slowly in the 1000-1300 oc range. The β-phase has a Curie point of about 200 oc and

Card 2/2

crystallizes in a cubic face-centered lattice. There are 4 figures.

ASSOCIATION: Otdeleniye stroyeniya veshchestva fizicheskogo

fakul'teta MGU (Structure of Matter Department, Faculty of Physics,

MGU)

SUBMITTED: March 28, 1958

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310016-5

STETSENKO, P. N., AVKSENTYEV, J.,

"Effective Internal Fields on Nuclei of the Antiferromagnetic Transition Metals"

report presented at the Symposium on Ferroelectricity and Ferromagnetism, Leningrad, 30 May-5 June 1963

"The effective internal fields on number of some transition metals and thin allows."

report sugmitted for intl Conf on Magnetism, Nottingham, WK, 6-13 Sep 64.

Moscow State Univ.

L 11952-65 EWT(2)/EPA(s)-2/EWT(m)/EWP(t)/EWP(b) Pt-10 IJP(c)/AEDC(a)/ASD(m)=3/AFWL/AS(mp)-2/ASD(a)-5/SSD/RAEM(a)/ESD(gs)/ESD(t) JD/GG ACCESSION NR: AP4046390 8/0056/64/047/003/0806/0811

AUTHORS: Stetsenko, P. N.; Avksent'yev, Yu. I.

TITLE: Effective magnetic fields at the nuclei of antiferromagnetic transition metals

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 806-811

TOPIC TAGS: antiferromagnetism, nuclear magnetic field, transition metal, manganese, chromium, magnetic moment, electron spin, specific heat, hyperfine structure, magnetic cooling

ABSTRACT: A method was developed for measuring the specific heat in the region of very low temperatures, for the purpose of determining the mutual correlation between the local magnetic field at a nucleus and the field due to spontaneous magnetization in a ferromagnetic substance. The method was used to investigate the effective

Card 1/5

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ACCESSION NR: AP4046390

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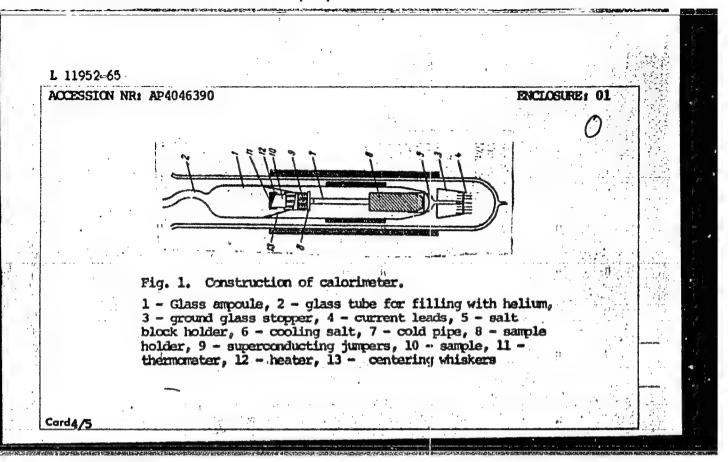
magnetic fields at the nuclei of manganese and chromium, which have an ordered distribution of the d- or f-electron spins, but not a spontaneous magnetic moment. The effective field was determined by measuring the nuclear specific heat. Both metals exhibit considerable hyperfine interaction. The method employs magnetic cooling, and the specific heat is determined in it not from a sudden temperature rise due to receipt of a certain amount of energy, but from the rate of continuous change of temperature following application of a known amount of power. The equipment is described in detail. The results show the effective field intensity to be 150 kOe at the manganese and chromium nuclei, respectively. The results agree well with those obtained by others. "The authors are deeply grateful to Ye. I. Kondorskiy for continuous interest in the work and for valuable remarks." Orig. art. has: 5 figures and 5 formulas.

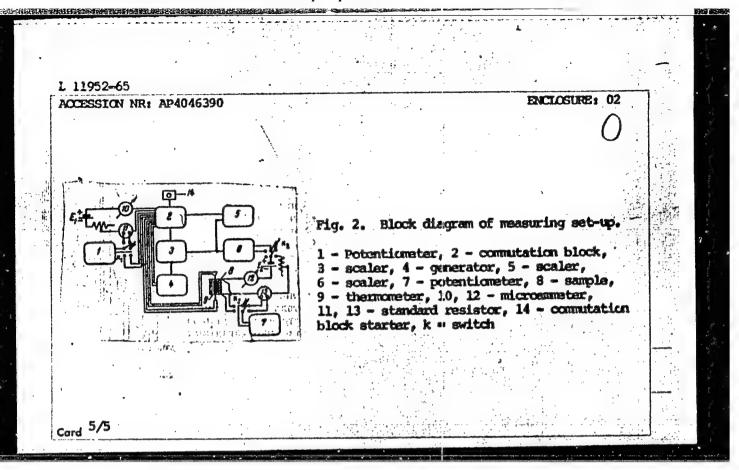
ASSOCIATION: Moskovskiy gosudarstvenny*y universitet (Moscow State University)

Card 2/5

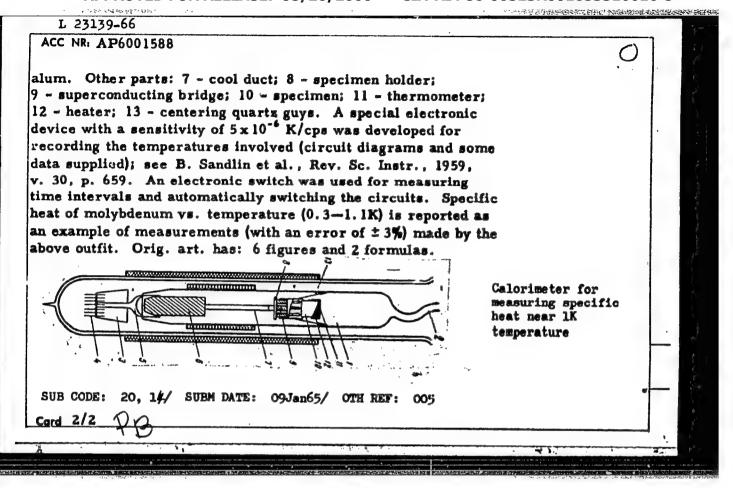
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EWT(1)/EWT(m)/EWP(w)/T/EWP(t) L 23139-66 E.W.A. ACC NR. AP6001588 23139-66 JD SOURCE CODE: UR/0120/65/000/006/0178/0183 (N) AUTHOR: Stetsenko, P. N.; Avksent'yev, Yu. I. ORG: Physical Faculty MGU (Fizicheskiy fakul'tet MGU) TITLE: Outfit for measuring the specific heat of metals and alloys at very low temperatures SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 178-183 TOPIC TAGS: specific heat, low temperature specific heat, calorimeter, metal, temperature instrument, heat measurement 21. 144 6 ABSTRACT: An outfit is described for measuring specific heat of metals and alloys at 0.20-1.5K, the temperatures below 1K being achieved by adiabatic demagnetization of a lump of a paramagnetic salt which contacts the test specimen. The specific heat was measured by determining the rate of temperature variation for a known supplied power. A glass calorimeter (see figure below) was used in the measurements. Vial I exhausted through tubing 2 is closed by glass block 3 carrying electrical lead-ins. Block 6 held by support 5 is made from chromium-potassium **Card** 1/2 UDC: 536.631:536.483



"APPROVED FOR RELEASE: 08/26/2000

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L 07]14-67 EWT(m)/EWP(t)/ETI IJP(c) JD/HW	L. C.
ACC NR: AP6029108 SOURCE CODE: UR/0048/66/030/006/0952/0963	
AUTHOR: Stetsenko, P. N.; Avksent'yev, Yu. I.	
ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy univer-Sitet)	
TITLE: Hyperfine interactions in Ni ₃ Mm alloy [Report, All-Union Conference on the Physics of Ferro- and Antiferromagnetism held 2-7 July 1965 in Sverdlovsk]	
SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no.6, 1966, 962-963	
TOPIC TAGS: specific heat, nickel alloy, manganese alloy, magnetic field, hyperfine interaction	C
ABSTRACT: The purpose of the work was to evaluate the effective field at the Min 55 /6 nuclei in Ni3 Min alloy with a view towards determining the character of the hyperfine interactions, i.e, the influence of the ambience (nearest neighbors) on the fields at	
the nuclei in this ordering alloy. The values of the specific heat were determined in the low temperature range from 0.3 to 1.50K; the lowest temperatures were realized by the technique of demagnetizing a paramagnetic salt in contact with the specimen. The	and brack with
equipment and procedure have been described in an earlier article by the authors (Zhur.	and a second
eksperim. i teor. fiz., 47, 806, 1964). The specimens were prepared by melting of the the components in an atmosphere of argon in an induction furnace. The measurement	
results (C_p versus T) are presented graphically. It is assumed that at very low tenperatures $C_p = \gamma T + \alpha T^{-2}$, where α is the hyperfine interaction constant, for determi-	
Card 1/2	

STETSENKO, S., otv. za vypusk

[Results of the carrying out of the state plan for the development of the national economy of the U.S.S.R. in 1959] Pro pidsumky vykonannia derzhavnoho planu rozvytku narodnoho hospodarstva SRSR u 1959 rotsi. [Results of the carrying out of the state plan for the development of the national economy of the Ukrainian S.S.R. in 1959; information of the Central Statistical Administration of the Ukrainian S.S.R.] Pro pidsumky vykonannia derzhavnoho planu rozvytku narodnoho hospodarstva Ukrains'koi RSR u 1959 rotsi; povidomlennia TSentral'noho statistichnoho upravlinnia pry Rady Ministriv Ukrains'koi RSR. Kyiv, Derzh. vyd-vo polit.lit-ry URSR, 1960. 62 p. (MIRA 13:3)

STETSENKO, S.Ye.

Semiautomatic pouring of bright petroleum products into a shallow container. Transp. i khran. nefti no. 3:27-28 '63. (MIRA 17:7)

1. Moskovskoye upravleniye Glavnogo upravleniya po transportu i snabzheniyu neft'yu i nefteproduktami RSFSR.

14-57-7-15382

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,

p 183 (USSR)

AUTHOR:

Stetsenko, T.

TITLE:

Sheep-Raising in the At-Bashi Rayon, and Means for Increasing Its Productivity (Sostoyaniye ovtsevodstva Atbashinskogo rayona i puti povysheniya yego produktiv-

nosti)

PERIODICAL:

S. kh. Kirgizii, 1956, Nr 9, pp 20-26

ABSTRACT:

The high mountain valleys of the Ak-Say and Arpa Rivers occupy approximately 80 percent of the area of the region. Sheep-raising represents the main form of

animal husbandry.

Card 1/1

No name

SALUNSKAYA, N.I.; SHKODENKO, V.I.; ROGACHEV, V.L.; STETSENKO, V.A.;

AFONINA, A.P.

Spraying against corn smut. Zashch. rast. ot vred. i bol. 6
no.5:22-23 My '61. (MIRA 15:6)

(Corn (Maize) Diseases and posts).

(Smuts) (Fungicides)

SHTEYNBUKH, N.V., kand.med.nauk; STETSENKO, V.D.

Electroercephalographic changes following subarachnoid administration of streptomycin. Probl.tub. 37 no.3:53-59 159.

(MIRA 12:6)

1. Iz Rostovskogo instituta akusherstva i pediatrii (dir. - kund.med.nauk D.S.Baranovskaya, nauchnyy rukovoditel - prof. I.Ya.Serebriyskiy, zav. eksperimental nym sektorom - deystvitel - nyy chlen AMN SSSR prof. N.A.Rozhanskiy [deceased]).

(STREPTOMYCIN, eff.
on EEG, subarachnoid admin. in animals (Rus))
(ELECTROENCEPHALOGRAPHY, eff. of drugs on,
streptomycin, subarachnoid admin. in animals
(Rus))

STHTSENKO, V.G.

Powerful electric tractor unit. Biul. nauch.-tekh. inform. po elek. (MIRA 10:9)

(Tractors)

ZUYEV, V.A.; SAMOYLOVA, T.P.; STETSENKO, V.G.

Self-propelled electric combine for grain. Biul. nauch.-tekh. po
elek. s.l'khoz. no.1:29-32 '56. (MIRA 10:9)

(Combines (Agricultural machinery))

STETSENKO, V.G., nauchnyy sotrudník.

Electrification of field work. Nauka i pered. op. v sel'khoz. 6 no.11:15-21 N '56. (MLRA 10:1)

1. Vsesoyuznyy institut elektrifikatsii sel'skogo khozyaystva.

(Electricity in agriculture) (Agricultural machinery)

LYUSHIN, M.I.[Liushyn, H.I.], kand. tekhn. nauk,; STETSENKO, V.I., kand. tekhn. nauk,; MARKOVSKIY, Ye.A.[Markovs'kyi, IE.N.], insh.

Increasing the lifetime of piston parts of the D-54 engine. Mekh. sil'. hosp. 9 no. 8:31-32 Ag 158. (MIRA 11:8) (Pistons)

PAKHOMOV, B.P.,inzh.; MARKOVSKIY, Ye.A.,inzh.; STETSENKO, V.I.,kand.tekhn.nauk

Performance of full-flow jet centrifugal oil cleaner of the
D-14 engine. Trakt. i sel'khozmash. no.2:12-14 F '59.

(MIRA 12:1)

(Tractors--Engines--Oil filters)

MARKOVSKIY, Yevgeniy Adamovich; MOYCHAN, Boris Alekseyevich, STETSHOO
Vsevolod Ivanovich; SAL'NIKOV, G., vedushchiy redaktor; NOVIK, A.,
tekhnicheskiy redaktor

[Badioisotopes in metal research] Radioaktivnye izotopy pri issledovanii metallov. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1956. 87 p.
(MLRA 9:10)

(Radioisotopes--Industrial applications)

(Metals)

SOV/137-58-10-21553

Translation from, Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 157 (USSR)

Seredenko, B.N., Stetsenko, V.I., Markovskiy, Ye.A. AUTHORS:

Wear-resistance of High-strength Cast Iron Employed in the TITLE:

Manufacture of Tractors (Iznosostovkost vysokoprochnogo

chuguna, primenyayemogo v traktorostroyenii

Nauchn, tr. In-ta mashinoved, 1 s.-kh. mekhan. AN UkrSSR, PERIODICAL:

1958, Vol 6, pp 33-52

ABSTRACT: Weighing methods and radioactive isotopes were employed

in wear-resistance tests performed on cast iron with spheroidal graphite (CISG) paired with various other types of cast iron and steel. The tests were carried out with and without lubrication under varying specific pressures. A horizontal plateau observed on curves representing the wear of pearlitic cast iron as a function of the specific pressure indicates that within a certain interval the wear is independent of the specific pressure. The fact that wear is not affected by an increase in pressure is attributable to an optimal saturation of friction surfaces with austenite that is formed during friction. For each pair (at

Card 1/2 a given velocity of friction) there exists a critical loading under

SOV/137-58-10-21553

Wear-resistance of High-strength Cast Iron (cont.)

which both the nature and the magnitude of wear are altered (the beginning of seizing). Under dry friction, pressures up to 40 kg/mm² (at velocities up to 1 m/sec) and 25 kg/mm² (at a velocity of 3 m/sec) are permissible for components made of CISG with a pearlite or pearlite-ferrite structure. With full lubrication the specific pressures may be increased to 80 kg/mm² (at a velocity of 1 m/sec). Operational tests performed on D-54 Diesel units with crankshafts made of CISG and of steel demonstrated that crank-pin wear is smaller in the case of the CISG crankshafts. The CISG crankshafts contained 15-25 and 40-60% of structural ferrite; the wear of the first group (containing 15-25% ferrite) was found to be somewhat greater than the wear of the second group.

E.Sh.

- 1. Cast iron--Mechanical properties 2. Cast iron--Testing equipment
- 3. Radioisotopes--Performance 4. Cast iron--Test results

Card 2/2

MARKOVSKIY, Ye.A.; STETSENKO, Y.I.; YAROPOLOV, I.N.; YAREMCHUK, V.V.; TUROVSKIY, I.Ya.; DROBYAZKO, T.T.

Short reports. Zav.lab. 24 no.4:503-504 158. (MIRA 11:4)

1. Institut mashinovedeniya i sel'skokhozyaystvennoy mekhaniki Akademii nauk USSR (for Markovskiy and Stetsenko). 2. Zavod sel'skokhozyaystvennogo moshinostroyeniya, g. Stalino (for Yarobolov). 3. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (for Turovskiy).

(Testing machines)

21(1.4) PHASE I BOOK EXPLOITATION SOV/3315

Movchan, Borys Oleksiyovych, and V. I. Stetsenko

Radioaktyvni izotopy v tekhnitsi (Radioactive Isotopes In Industry) kyyiv, Derzhtekhvydav URSR, 1959. 183 p. 1,000 copies printed.

Ed.: O. Nimchunova; Tech. Ed.: P. Patsalyuk.

PURPOSE: This book is intended for the staff of industrial laboratories, design bureaus, and scientific research institutes, as well as for specialists in the application of atomic energy for peaceful uses.

COVERAGE: This book deals with the utilization of radioactive isotopes in Soviet and non-Soviet industry during the last decade. It analyzes the nature and properties of radioactive isotopes and suggests working methods as well as accident prevention measures. It treats the utilization of isotopes in measuring apparatus, automation and the control of industrial processes

Card 1/4

33710 s/686/61/000/000/009/012 D207/D303 Stetsenko, V. I. and Markovskiy, Ye. A. Some features of the state of metal surfaces deformed 1454 11730 Soveshchaniye po voprosam teorii sukhogo treniya i obra-AUTHORS: zovaniya chastits iznosa pri sukhom trenii. Riga. 1959; by friction TITLE: TEXT: The authors subjected high-strength cast iron, containing TEXT: The authors subjected high-strength cast iron, containing globular graphite, to dry sliding friction and to axial compression and studied the formation of wear-resisting surface layers. SOURCE: sion and studied the formation of wear-resisting surface tayer X-ray diffractograms, obtained by L. I. Rybak with a YPC-50W obtained by L. I. Rybak with a YPC-50W obtained by L. I. Rybak with a PPC-50W obtained by L. Rybak with A-ray diffracograms, obtained by 1. 1. Ayoak with a fro-join in (URS-50I) instrument, showed that coherent scattering regions in the surface of cast iron were smaller (1.8 - 3.5) x 10-6 cm, after

dry friction than after axial compression, (2.0 - 4.6) x 10 cm.
Block fragmentation increased on increase of preggure during days ary iriction than after axial compression, (2.0 4.0) And dry Block fragmentation increased on increase of pressure during dry block tragmentation increased on increase of pressure during dry friction; irrespective of the actual structure of cast iron. In the card 1/3

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33716 S/686/61/000/000/009/012 D207/D303

Some features of ...

tion of carbide; this raised the surface hardness and wear resistance. It was also found that dry friction intensified diffusion in surface layers of one metal and between surfaces of two metals in friction. The surface layers produced by dry friction had a finegrain structure with occlusions at least 100 times smaller than those present initially in cast iron. There are 6 figures and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: C. S. Barrett, Phys. Rev., 72, 3, 1947; R.P. Agarwala and H. Wilman, Proc. Roy. Soc., A, 223, 1954.

ASSOCIATION: Institut liteynogo proizvodstva AN USSR (Institute of the Foundry Industry, AS UkrSSR)

Card 3/3

"APPROVED FOR RELEASE: 08/26/2000

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502	Tatables of the Wear Wells and 's. A. Markovsky. Gast Iron Cart 1.00 Card 8/13
191	Berborod'ko, M. D. Wear of Steel and Bronze at Righ Specific Contact Frances in the France of Organic and Monorganic Lubricants and an Abrasive
	3. Abresive Wear. Wear Under Special Conditions of Frietion
184	A. P. Comparative Estimate of the Antissing is of Materials and Their Combinations
174	of Metals
170	Enterials Used in Worm Gears Semmary of the Selzing
170	Hisharin, Tu. A., and A. V. Sivyakova. Laboratory In- wellfation of The Anticating Stability of Several. Materials Scot in Nove Gears
representation of the control of the	The volume contains articles concerning the wear and wear resistance of antifriction makersals. Among the ropics covered are; modern developments in the theory and experimental afforce of wear resistance of marchals, secrific data methods for increasing the wear resistance of servicing the effects of friction and wear on the effects of friction and wear on the effects of materials the methods of friction and wear on the effect of various types of indreasing the wear reliation effect of various wide wrater of materials and sending of materials the effect of various wide wratery of an enditions, modern and different conditions, modern developments in materials, and the war of finish machining on wear resistance. Many personalities are antioned in the text. References accompany mon
00 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ferratily of training it is now assainsken (Third All-Union Conference so principle and West in Relatines) which was held april 9-15, 1958. Foblems discussed were in 5 main areas: 1) Medical marker, Foblems discussed were in 5 main areas: (Chaltwent Tarker, Dottor of Technical Sciences) and and Indrication and Friction Bearings (Chaltwent Tarker, Dottor of Technical Sciences) and and Indrication training to the Medical Sciences and and Indrication Medical Sciences and Example 13 Day and Boundary Friction (Chaltwent USS), and I. V. Fargel Willy Dottor of Technical Sciences of Tarkers of Tarkers and I. V. Exagel Willy Dottor of Technical Sciences (Chaltwent I. V. Exagel Willy Dottor of Technical Sciences); and Sciences (Chaltwent I. V. Exagel Willy Dottor of Technical Sciences); and Sciences (Chaltwent I. V. Exagel Willy Dottor of Technical Sciences); and Sciences of Technical Sciences (Chaltwent I. V. Exagel Will Technical Sciences); and M. W. Erushnow, Doctor of Technical Sciences (Chaltwent I. W. Exagel Will Technical Sciences); was sainful secretary. The Example of Technical Sciences, was sainful secretary. The Example of Technical Sciences, was sainful secretary.
W	FURFOR: This collection of articles is intended for practicin engineers and research scientists.
aniya. S	Sponsoring Agency: Akademiya nauk SSS. Institut mashinovedeniya Resp. Ed.: W. M. Bhrushchov, Professor; Eds. of Publishing Mouse: M. M. Bobnov, and S. L. Orpik; Tech. Ed.: T. W. Polyskova.
	. Imnos i iznosostoykost. Antifriktsionnyje materialy (Wear and Wear Relistance, Antifriction Raterials) Fostom, Izd-vo AN SSSN, 1960. G773 p. Errata slip inserted. 3,500 copies printed (Series: Its: Trudy, v. 1)
nd N rinted.	
3d, nd N rinted,	. Vsekopuznaya konferentsiya po treniyu i iznosu v mashinakh. 1958.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310016-5

5/137/62/000/003/001/191 A006/A101

AUTHOR:

Stetsenko, V. I.

TITLE:

The use of radioactive isotopes in metallurgy

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 3, abstract 3AC (V sb. "Goryachaya obrabotka metallov, no. 2," Kiyev, AN UkrSSR,

1960. 128-134)

Two methods are indicated for the use of radioactive isotopes, namely in the form of marked atoms and of a source of penetrating radioactive radiation. Radioactive isotopes in the form of a radiation source are used in radioactive instrument building and gamma flaw-detection. The author analyzes the use of radioactive isotopes to determine the wear of refractory masonry in metallurgical furnaces (in particular in blast furnaces), the thickness of rolled sheet metal (in particular steel and aluminum) and to mark rolled steel. The author notes the use of gamma-flaw detection for the quality control of the properties of metal castings for the purpose of determining shrinkage cavities and slag inclusions.

[Abstracter's note: Complete translation]

V. Oparysheva

Card 1/1

MARKOVSKIY, Yevgeniy Adamovich[Markovs'kyi, IE.A.]; STETSENKO, Vsevolod

Ivanovich; ERAUN, M.P., doktor tekhn. nauk, otv. red.;

PYECHKOVSKAYA, O.M.[Piechkovs'ka, O.M.], red. izd-va; LIMERMAN,
T.R., tekhn. red.

[Application of radioactive isotopes for testing internal-combustion engines] Zastosuvannia radioaktyvnykh izotopov dlia doslidzhennia dvyhumiv vnutrishn'oho zhoriannia. Kyiv, Vyd-vo Akad. nauk URSR, 1961. 45 p. (MIRA 15:3) (Gas and oil engines—Testing)

(Gas and oil engines—Testing)
(Radioisotopes—Industrial applications)

S/126/61/011/002/018/025 E193/E483

AUTHORS: Markovskaya, L.I., Markovskiy, Ye.A., Stetsenko, V.I.

and Chernyy, V.G.

TITLE: The Effect of Friction and Plastic Deformation on the

Fine Structure of High-Strength Cast Iron

PERIODICAL. Fizika metallov i metallovedeniye, 1961, Vol.11, No.2,

pp.296-301

TEXT: Pearlitic and ferritic cast irons, containing (wt.%)
3.64 C, 2.42 Si, 0.60 Mn, 0.045 P, 0.0322 S, 0.19 Cr and
0.96 Mg, were used in the present investigation. Cylindrical
specimens were subjected to uniaxial compression to attain
deformation ranging from 7 to 75%, the effect of deformation on
the distortions of the second type (\Delta a/a) and on the size D of
the regions of coherent scattering of X-rays was studied. In
addition, the effect of sliding friction (at a constant speed of
3.25 m/sec) on these characteristics was studied. The results
are reproduced graphically in Fig.1 and 2. In Fig.1, the degree
of lattice distortion of the second type (\Delta a/a & 10^{-3}, right-hand
scale) and the dimension of the mosaic blocks (D.10-6 cm, lefthand scale) are plotted against the degree (%) of deformation,
Card 1/3

S/126/61/011/002/018/025 E193/E483

The Effect of Friction ...

curves 1 and 2 relating to pearlitic and ferritic cast irons, respectively. In Fig. 2, \(\bar{\Omega}\)alpha and D are plotted against the specific pressure (kg/cm2) applied during the friction tests on pearlitic (curve 1) and ferritic (curve 2) cast irons, been established that both unlaxial compression and friction loads cause considerable distortion of the crystal lattice and bring about a decrease in the size of the mosaic blocks in the matrix, each effect being more pronounced in the pearlitic cast iron. Similarly, microhardness of pearlitic cast iron, subjected to either type of deformation, is higher than that of the ferritic In the surface layers of specimens of both types of cast iron, subjected to friction loading, a transformation takes place, as a result of which austenite is formed and the quantity of cementite in the alloy increases, the content of both these phases increasing with increasing magnitude of the applied pressure. was concluded that the results of the present investigation can be used to evaluate the resistance to deformation of materials operating under friction loads. There are 4 figures, 2 tables and 2 Soviet references.

Card 2/3

The Effect of Friction ...

S/126/61/011/002/018/025 E193/E483

ASSOCIATION: Institut liteynogo proizvodstva AN UkrSSR

(Institute of Foundry Production AS UkrSSR)

SUBMITTED:

June 8, 1960

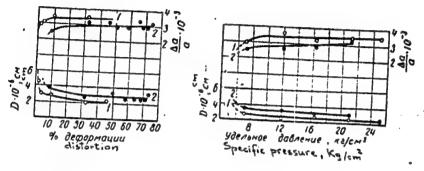


Fig.1.

Fig.2.

Card 3/3

DEM'YANENKO, T.P.; STETSENKO, V.I., kand. tekhn. nauk

Third Ukrainian Conference on "Muclear physics and applications of atomic energy." Avtom. i prib. no.1:81-82 Je-Mr '65.

(MIRA 18:8)

L 15122-65 EWT(m) DIAAP/RAEM(e)/ESD(t)/ESD(gs)/BSD/ASD(a)-5/AS(mp)-2 DM ACCESSION NR: AP4045338 S/0089/64/017/003/0224/0225

AUTHOR: Kutovoy, V. I.; Stetsenko, V. I.

3 19

TITLE: Dependence of the linear absorption coefficient of gamma radiation from Co⁶⁰ on temperature of the absorbing metal

SOURCE: Atomnaya energiya, v. 17, no. 3, 1964, 224-225

TOPIC TAGS: gamma radiation, Co^{60} , gamma radiation absorption coefficient, temperature effect, gamma ray absorption

ABSTRACT: The change of the metal temperature produces changes in the absorption of gamma radiation, mainly becuase of density changes. This dependence was measured by the authors for the gamma radiation from Co⁶⁰ in a wide range of temperatures: from 20C to the boiling points of Al, Zn, Cd, Sn, Pb and B the total change of μ in this range is between 10 to 30%. There is a discontinuity of μ at the melting point (a sharp drop). There is a further continuous drop in the liquid metal. Orig. art. has: 2 figures.

Card 1/2

L 15122-65

ACCESSION NR: AP4045338

ASSOCIATION: None

SUBMITTED: 14Nov63

ENCL: 00

SUB CODE: NP, TD NO REF SOV: 002 OTHER: 002

Card 2/2

EWT(d)/EPA(s)-2/EWT(m)/EPF(n)-2/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/AP JD/WW/JG DIAAP ACCESSION NR: AP5024167 UR/0115/65/000/008/0017/0020 536.5:669-154 AUTHOR: Kutovoy, V. I.; Stetsenko, V. TITLE: Temperature monitoring of liquid metals by the radioisotope method Izmeritel'naya tekhnika, no. 8, 1965, 17-20 TOPIC TAGS: liquid metal, temperature measurement, gamma ray absorption ABSTRACT: The paper presents a radioisotope method for continuous contactless determination of the temperature of a liquid metal from the change in the absorption of gamma rays by the metal. The method involves the measurement of the change in the linear coefficient of gamma ray absorption $\Delta_{\mathcal{M}}$ in a container where the thickness of the molten metal is kept constant in the zone of measurement. The applicability of the radioisotope method is determined from the change in the linear attenuation coefficient on heating the molten metal 100C between the melting point t_{mp} and the boiling point t_{bp} $\Delta \varkappa''$, where tbp - tmp , 200 n $\Delta imes$ " being the change in the linear absorption coefficient as the temperature is 100°C

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raised from t_{mp} to t_{bp} .			20""					
ature sensitivity of the the thickness of the met	al in the z	one of me	asurement	being co	nstant, I	tne temp	era-	
ture of the molten metal	can be det	ermined f	rom the ch	ange in 1	the ratio	o of int	en-	
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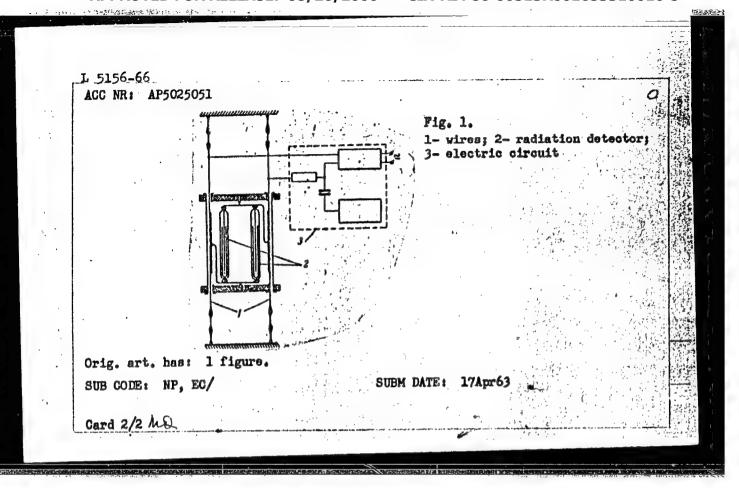
ENT (1) / ENA (h) / ETC (m) L 5156-66 DIAAP 767 ACC NR: AP5025051 SOURCE CODE: UR/0286/65/000/016/0091/0092 AUTHORS: Iogansen, V. S.; Steblovskiy, I. A.; Stetsenko, V. I.; Ivanov, A. M. ORG: none 40 TITLE: Radioisotopic level gage. Class 42, No. 173972 SOURCÉ! Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 91-92 TOPIC TAGS: radiation detector, radioisotope, radiation source, electric circuit ABSTRACT: This Author Certificate presents a radioisotopic level gage with a mobile source, a receiver of ionizing radiation, and a follow-up system. To increase the range of measurement oscillation level, an open trolley system is

crease the range of measurement oscillation level, an open trolley system is included, along the direction of movement of the radiation receiver. The trolley system consists of two cables (or wires) and two current extractors forming a connection between the radiation detector and the following electric circuit (see Figure 1).

Card 1/2

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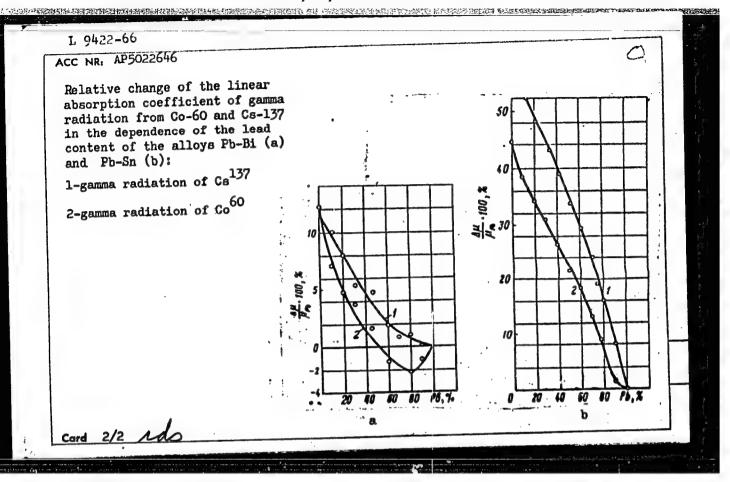
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ACC NRI APSO22646	UR/0089/65/019/002/0203/0203 539.121.73:539.166	
AUMOR: Kutovoy, V.I.; Stetsenko,		
TITIE: Linear absorption coefficie	ent of gamma radiation from to	
411030	:	*
SOURCE: Atomnaya energiya, v. 19,	, no. 2, 1965, 203	j _e r
TOPIC TAGS: gamma radiation, gamma	ma ray absorption, absorption coefficient, LEAN ALLOY	CHC-1
ABSTRACT: The dependence of the content of lead in the alloys of Pa	coefficients of absorption of gamma rays on the Pb-Bi and Pb-Sn types. The results of experiments a Enclosure). The curves show how the relative cient varies with the Pb-content in Pb-Bi and	The state of the s
ASSOCIATION: none		
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LIVSHITS, Leonid Yakovlevich, inzh.; KIRILYUK, Leonid Vasil'yevich. inzh.; GERCHIKOV, Lavid Solomonovich, kand. tekhn. nauk, STETSENKO, V.I., kand. tekhn. nauk, retsenzent

[Manual on the installation of radio-isotope relay devices in industry] Posobie po ustanovke radioizotopnykh releinykh priborov v promyshlennosti. Kiev, Tekhnika, 1965. 95 p. (MIRA 18:12)

STETSENKO, V.M., student 6-go kursa Changes in blood proteins in theumatic fever in children. Ped., akush.

i gin. 19 no.5:32-36 157. 1. Kafedra gospital noy pediatrii zav. - chlen-korrespondent AMN SSSR

prof. O.M. Khokhol) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akad. A.A. Bogomol'tsa (dir. - prof. Te.F. Shamray).

(RHEUMATIC FRVER)

(BLOOD PROTEINS)

GUPALENKO, A.M.: TARAN, G.K.; STETSERKO, V.M.

Hystrichosis of domestic ducks in inlets of the lower Dniester.

Veterinariia 35 no.4:45-48 Ap 158. (MIRA 11:3)

1. Nachal'nik otdela veterinarii Odesskogo oblupravleniya sel-skogo khozyaystva (for Gupalenko). 2. Direktor oblastnoy vet-baklaboratorii (for Stetsenko). 3. Zaveduyushchiy parazitologi-cheskim otdelom oblvetbaklaboratorii (for Taran).

(Dniester Valley--Ducks--Diseases and pests)

TANTSYUMA, Ye.M., dotsent; STRTSENKO, V.N.

Case of aortic atresia in a child. Vrach. delo no.10:136-140 0 161.
(MIRA 14:12)

1. Kafedra gospital'noy pediatrii (zav. - prof. chlen-korrespondent AMN SSSR Ye.N.Khokhal i kafedra patologicheskoy anatomii (zav. - prof. Ye.I.Chayka) Klyevskogo meditsinskogo instituta.

(AORTA-DISEASES)

KUDENKO, A.A.; STETSENKO, V.P.

Role of volcanism in the formation of sedimentary-effusive and sedimentary layers. Trudy Lab. paleovulk. Kazakh. gos. un. no.56:231-234 '63. (MIRA 16:6)

l. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya Ministerstva geologii i okhrany nedr Kazakhskoy SSR i Yuzhno-Kazakhstanskoye geologicheskoye upravleniye. (Volcanoes) (Petrology)

KUDENKO, A.A.; STETSENKO, V.F.

Role of volcanism in the formation of sedimentary rocks. Trudy Lab. paleovuik. Kazakh. gos. un no.2:73-84 163.

Connection of some ore deposits of the Western Carpathians with volcanic processes. 1bid.:239-247

(MIRA 17:11)

1. Kezakhsliy institut mineral'nogo syr'ya i Yuzhno-Kazakhstanskoye geologicheskoye upravleniye.

KUDENKO, A.A.; STETSENKO, V.P.

Possibility of using a ZnS-FeS system as a geological thermometer. Geokhimila no.11:1152-1156 N '64. (MIRA 18:8)

I. Kazakhskiy institut mineral nogo Syr'ya Yuzhno-Kazakhstanskoya geologich-skoya upravleniya.

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CIA-RDP86-00513R001653310016-5

T. 11296 1-06 SOURCE CODE: UR/0081/66/000/007/F046/E047 125024934 ACC NR: AUTHOR: Kudenko, A. A.; Stetsenko, V. P. TITLE: Chemical formulas of minerals SOURCE: Ref. zh. Khimiya, Part I, Abs. 78331 REF SOURCE: Mineralog. sb. L'vovsk. un-t, vyp. 3, no. 18, 1964, 251-256 TOPIC TAGS: chemical formula, mineral ABSTRACT: Possible sources of error in the determination of Avogadro's number, based on the main parameters of minerals (molecular weight, density, and composition of the unit cell), are examined. Modern methods of writing chemical formulas of minerals are discussed critically, and it is suggested that the number of formula units 2 be replaced by the number of ions or atoms entering into a single cell. This method is used to derive formulas for a series of minerals which are isomorphous mixtures. The formulas of polybasite (Ag, Cu)₁₆Sb₂S₁₁ (Z = 2) and Fe-sphalerite (Zn, Fe)S (Z = 4), taking into account the number of atoms per cell, will be (AggoCu2)Sb4S22 and (Zng.8Fe0.2)S4. L. Dem'yanets. [Translation of abstract] SUB CODE: 07,03

EHCHIEBATYLd, V.A., Districted, V.V.

Automatic machine for rewring to holes in flat parts. Siel.
tekh.-ekon. Inform. Gos. nauch.-issl. inst. nauch. i tekh. inform.
18 no.7:36-37 Jl *65. (MIRA 18:9)

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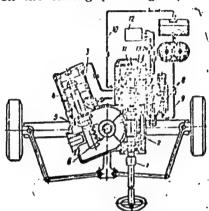
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L (%/267-67 FWI (m)/T P.) ACC NR: AP6013315 (A) SOURCE CODE: UR/0413/66/000/008/0134/0134		
AUTHORS: Drong, I. I.; Pritsker, P. Ya.; Kustanovich, S. L.; Vakher, V. I.; Bogdanov, S. A.; Kaloyev, A. V.; Chichikov, G. L.; Stetsenko, V. V.; Vitkevich, V. B.	-	
ORG: none		
63, No. 180965 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 134 TOPIC TAGS: hydraulic device, hydraulic equipment, hydraulic pressure amplifier,		
ABSTRACT: This Author Certificate presents a hydraulic amplifier for a steering mechanism mechanism of a machine on wheels. The amplifier is built into the steering mechanism a lead element in the form of a machine connected to the steering shaft. It contains a lead element in the form of a machine connected to the steering shaft.		
the steering mechanism), and a distributor. The latter consists of a casing liked on the steering mechanism. The casing contains ducts leading to the the gear box of the steering mechanism. The casing contains ducts leading to the working interior of the power cylinder and to its pressure and outflew pipes. A working interior of the power cylinder and to its pressure and outflew pipes. A cylindrical valve placed in the casing is located on the steering shaft, while two cylindrical valve placed in the casing is located on the steering shaft. To provide for the indications limit the axial displacement of the steering shaft.		THE RE
tion of gauge reading of the automatic steering augmented by half to the distributing sleeve (which slides in respect to the cylindrical valve and to the UDC: 629.113-522.5		- 0 4

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casing) is placed in the body of the distributor concentrically with the valve. The sleeve contains openings for passing of liquid and is motivated by plungers placed in the casing and connected to the gauge of automatic steering. These plungers interact with the face surfaces of washers contacting the sleeve. The washers serve as supports limiting the displacement of the sleeve in the casing (see Fig. 1).

Fig. 1. 1 - steering shaft; 2 - screw; 3 - power cylinder; 4 - shaft of the power cylinder; 5 - spline; 6 - sector of the steering mechanism; 7 - distributor body; 8 - valves; 9 - pressure duct; 10 - overflow duct; 11 - cylindrical valve; 12 - automatic steering gauge; 13 - sliding sleeve; 14 - plungers



The working displacement of the sleeve (limited by the washers) is smaller than the working displacement of the valve. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 14Apr62
Card 2/2

20349

S/020/61/136/005/007/032 C111/C222

16.5400

AUTHOR: Stetsenko, V.Ya.

TITLE: K - Regular Cones

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 5, pp. 1038 - 1040

The following definitions are due to M.A. Krasnosel'skiy. In the real Banach space E let be given the cones K and K ; K CK. The semiorder in E is introduced with the aid of K : $x \in y$ if $y - x \in I$. K is called K-regular if from

(1)
$$x_1 \leqslant x_2 \leqslant ... \leqslant x_n \leqslant ... (x_n \in K_0, n = 1, 2, ...)$$

(2)
$$x_n \le u_0 \in K_0 \quad (n = 1, 2, ...)$$

it follows : $\| x_n - x_{n+p} \| \to 0$ for $n\to\infty$. K_0 is called completely K-regular if from (1) and

(3)
$$\|x_n\| \le M \quad (n = 1, 2, ...)$$

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K - Regular Cones

it follows that $\mathbf{x}_{\mathbf{n}}$ is a fundamental sequence.

The case $K_0 = K$ was considered in (Ref. 1). The author investigates the case $K_0 \neq K$.

K is called K-normal if for all $x,y\in K$ there exists an N so that from $0 \le x \le y$ it follows $||x|| \le N ||y||$. Let K < v, w > be the set of all $x \in K$

for which $v \leqslant x \not \leqslant w$. Theorem 1 (I.A. Bakhtin (Ref. 4)) : In order that K_O is K-normal it is necessary and sufficient that all sets $K_O < 0$, $u_O >$, $u_O \in K_O$ are bounded. Theorem 2 : Every K-regular cone K_O is K-normal.

Theorem 3: If Ko is completely K-regular and K-normal then it is

K-regular. Theorem 4: If K_0 is completely K-regular then it is K-normal.

Theorem 5: For every monotone sequence $x_n \in K$: $x_1 \leqslant x_2 \leqslant x_3 \leqslant \dots$ which

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K - Regular Cones

K-regular. Then (6) has a solution x(t) defined on $[0, \delta] \subset [0,a]$ and satisfying the initial condition $x(0) = x_0$, where $[x_0 \in \mathbb{R}] < 0$, $[x_0 \in \mathbb{R}] < 0$

(γ < 1). The solution can be obtained by successive approximation $f[s,x_n(s)] ds \quad (t \in [0,\delta], n-0,1,2,..), x_0(t) \equiv v_0$

The author mentions M.G. Kreyn. He thanks M.A. Krasnosel'skiy for the theme and advices. There are 6 references : 5 Soviet and 1 French.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

PRESENTED: October 1, 1960, by P.S. Aleksandrov, Academician

SUBMITTED: September 30, 1960

Card 4/4

STETSENKO, V.Ya.

Geometry of cones in Banach space. Dokl.AN SSSR 137 no.5:1067-1070 Ap 161. (MIRA 14:4)

1. Predstavleno akademikom P.S.Aleksandrovym. (Spaces, Generalized)

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Continuity of linear positive operators. Sib. mat. zhur. 3
no.1:156-160 Ja-F '62.

(Operators (Mathematics))

KRASBOSKL'SKIY, M.A.; STETSENKO, V.Ya.

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(Boundary value problems)

(Boundary value problems)

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A property of solid minihedral cones in n-dimensional Banach spaces. Dokl. AN Tadzh. SSR 6 no.3:11-13 '63. (MIRA 17:4)

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Continuity of semiadditive homogeneous operators. Dokl. AN Tadzh. SSR 6 no.5:3-7 '63. (MIRA 17:4)

1. Tadzhikskiy gosudarstvennyy universitet imeni Lenina. Predstavleno akademikom AN Tadzhikskoy SSR S.U. Umarovym.

STELCHIZO, . . .A.

Observed the exceptate constantly of an inverse operator and some of its appropriations for any Decomp in terms 1:3-16 (63.

localization of the spectrum of an infinite Latria, Ibid.:43-48

Estimation of the upper and lower bounds of the modula of polynomial ribs. Localley 26

Comments on M.G. Frein a criterion of the norms sty of a cone in a Banach space. This : $94 \sim 98$

(MIRA 18:2)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310016-5

Vilentia, B. TA.: Gorin, YE. A.; Kontynchinko, A. C.; Kramosel'skiy, H. A.; Williams, B. Ta.: Gorin, Ye. A.; Kontynchinko, A. C.; Kramosel'skiy, H. A.; Williams, M. J.; Folunia, M. L.; Ruttkaly.

Yh. D.; Couldoy, V. I.; Subtenko, V. Ya.; Fuddoyov, L. D.; Ruttkaly.

Yh. D.; Couldoy, V. I.; Subtenko, V. Ya.; Fuddoyov, L. D.; Tattlandoy, E. S.

Entition I realyzis (Funktal conal my namilia), Moscow, Istore "Mauka", 1964,
RPh. Ethilo., index. Errata silp innerted. 17,500 copies printed. Series
note: Spravochnaya matematicheskaya bibliotoka.

TOFIC TAGS: Conctional analyzis, suthematice, operator equation, quantum
mochanics, Hilbert space, Banach space, linear differential equation

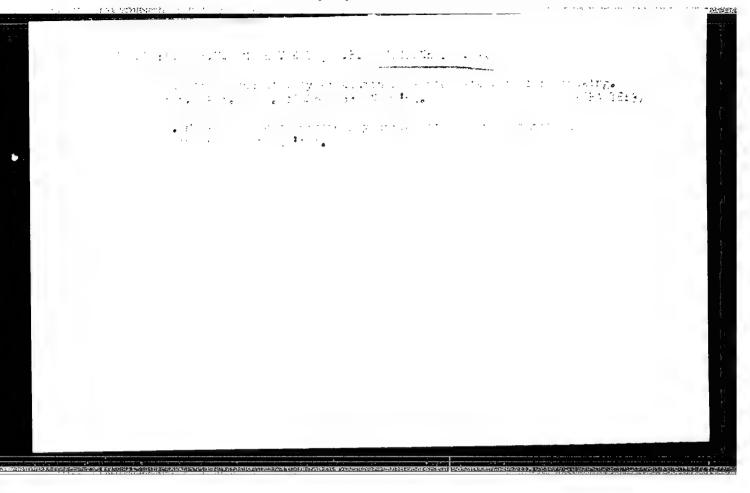
PURPOGE AND CONTRAGE: This issue in a sorice of Fandbooks of the Mathematical
Library contains much material grouped backally around the theory of
operators and operator equations. It presents the back concepts and methods
of functional analyzis, theory of operators in Hilbert space and in conical
space, the theory of nenlinear operator equations, the theory of standard rings
applied to equations in martial derivatives, to integral equations.

Topic of the theory of generalized functions takes up a large part of the book. The
book explains mathematical facts; theorems and formulas, as a rule, are given

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TABLE OF CONTENTS [abridged]:			
Foreword — 13 Ch. I. Basic concepts of functional analysis Ch. II. Linear operators in Hilbert space — Ch. III. Linear differential equations in Basic Ch. IV. Monlinear operator equations — 187 Ch. V. Operators in space with a come — 229 Ch. VI. Commutative standard rings — 256 Ch. VII. Quantum mechanics operators — 279 Ch. VIII. Generalized functions — 323 Hillography — hill Supject Index — hill	nach space - 116		/
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ACCESSION NR: AR5008664

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SOURCE: Ref. zh. Matematika, Abs. 18468

8

AUTHOR: Yesayan, A. R.; Stetsenko, V. Ya.

TITLE: On the convergence of successive approximations for operator equations of the second kind

CITED SOURCE: Dokl. AN TadzhSSR, v. 7, no. 2, 1964, 3-7

TOPIC TAGS: approximation method, operator equation

TRANSLATION: The convergence of the following successive approximations method is

considered:

 $x_0 - g$, $x_{n+1} = \frac{1}{\lambda} (Ax_n + f) (n = 0, 1, ...)$ (1)

for solving the equation

$$\lambda x = Ax + f \tag{2}$$

for values of the parameter λ taken from the domain of solvability of this equation; here A is the linear operator acting in the Banach space E, which is partially ordered by the cone K. If one takes as the zero approximation g the element

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equation (2) has be sent work, the auth	of the successive approximations (1 en demonstrated by the authors in an ors take sets of elements of the Ban element 1 and which have the proper	ty that, beginning with any	
maint in these sets	the successive approximations (1)	converge to a solution or	
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equation (2) (for veguation). Ya. Ham	medov.		
equation (2) (for veguation). Ya. Ham	medov.		

KRASNOSEL'SKIY, M.A.; STETSENKO, V.Ya.

Symposium at Dushanbe. Usp. mat. nauk 19 no.5:215-228 S-0 '64.

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GTETSENRO, V.Ya.

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Predstavleno akademikom A.N. Kolmogorovym.